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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/030,544

DATE: 08/14/2002

TIME: 14:05:36

Input Set : A:\NIH0376.ST25.txt

Output Set: N:\CRF3\08142002\J030544.raw

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3 <110> APPLICANT: Schmidt, Alexander C.
4   Skiadopoulos, Mario H.
5   Collins, Peter L.
6   Murphy, Brian R.
7   Bailly, Jane E.
8   Durbin, Anna P.
10 <120> TITLE OF INVENTION: Attenuated Human-Bovine Chimeric Parainfluenza Virus (PIV)
Vaccines
12 <130> FILE REFERENCE: Nih-0376
14 <140> CURRENT APPLICATION NUMBER: 10/030,544
15 <141> CURRENT FILING DATE: 2002-01-08
17 <150> PRIOR APPLICATION NUMBER: PCT/US00/17066
18 <151> PRIOR FILING DATE: 2000-06-15
20 <150> PRIOR APPLICATION NUMBER: 60/143,134
21 <151> PRIOR FILING DATE: 1999-07-09
23 <160> NUMBER OF SEQ ID NOS: 31
25 <170> SOFTWARE: PatentIn version 3.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 7
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Sequence flanking sites of sequence polymorphism in BPIV3 Ka
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36 actggtt                                     7
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42 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Sequence flanking site for introduction of Sgr A1 site for
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54 <212> TYPE: DNA
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57 <220> FEATURE:
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62 tccaccggtg ca
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66 <211> LENGTH: 12
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152 caaaaatggt g                                   11
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157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
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169 <212> TYPE: DNA
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196 <213> ORGANISM: Artificial Sequence
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200      don
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203 caaaaatggt ga                                   12
206 <210> SEQ ID NO: 15
207 <211> LENGTH: 12

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221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Sequence flanking N gene start codon in rJS
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231 <210> SEQ ID NO: 17
232 <211> LENGTH: 40
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Sequence flanking N gene start codon in cKa and cSF
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244 <211> LENGTH: 40
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Sequence flanking N gene start codon in Ka and SF
251 <400> SEQUENCE: 18
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256 <211> LENGTH: 40
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Sequence flanking N gene stop codon in rJS
263 <400> SEQUENCE: 19
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268 <211> LENGTH: 40
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Sequence flanking N gene stop codon in cKa and cSF
275 <400> SEQUENCE: 20
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279 <210> SEQ ID NO: 21
280 <211> LENGTH: 40

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281 <212> TYPE: DNA
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284 <220> FEATURE:
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287 <400> SEQUENCE: 21
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292 <211> LENGTH: 15456
293 <212> TYPE: DNA
294 <213> ORGANISM: Bovine Parainfluenza Virus 3 (Ka strain)
296 <400> SEQUENCE: 22
297 accaaacaag agaagagact tgcttgggaa tattaattca aataaaaaatt aacttaggat        60
299 taaagaactt taccgaaagg taaggggaaa gaaatcctaa gactgtaatc atgttgagtc        120
301 tattcgacac attcagtgcg cgtaggcagg agaacataac gaaatcagct ggtggggctg        180
303 ttattcccg gcaaaaaaac actgtgtcta tatttgcctt tggaccatca ataacagatg        240
305 acaatgataa aatgacattg gctcttctct ttttgtctca ttctttagac aatgaaaagc        300
307 agcatgcgca aagagctgga tttttagttt ctctgttata aatggcttat gccaacccag        360
309 aattatattt aacatcaaat ggtagtaatg cagatgttaa atatgttata tacatgatag        420
311 agaaagaccc aggaagacag aaatatggtg ggtttgtcgt caagactaga gagatggttt        480
313 atgaaaagac aactgattgg atgttcggga gtgatcttga gtatgatcaa gacaatatgt        540
315 tgcaaaatgg tagaagcact tctacaatcg aggatcttgt tcatactttt ggatatccat        600
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319 tatcaggatt gaggaaagga ttctttactc ggtagaagc atttcgacaa gatggaacag        720
321 ttaaatccag tctagtgttg agcgggtgat cagtagaaca aattggatca attatgaggt        780
323 cccaacagag cttggtaaca ctcatggttg aaacactgat aacaatgaac acaggcagga        840
325 atgatctgac aacaatagaa aagaatatac agattgtagg aaactacatc agagatgcag        900
327 gtcttgcttc atttttcaac acaatcagat atggcattga gactagaatg gcagctctaa        960
329 ctctgtctac ccttagaccg gatatacaac gactcaaggc actgatcgag ttatatctat       1020
331 caaaggggcc acgtgctcct tttatatgca ttttgagaga tcccgatcat ggtgagtttg       1080
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341 atacaacctt tcataagcct acagggggat cagccataga aatggcgata gatgaagaag       1380
343 cagggcagcc tgaatccaga ggagatcagg atcaaggaga tgagcctcgg tcatccatag       1440
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349 agaaaaggaa acagagtgcg ccgagatcaa ctgacatcac aaacaacaca aatcaaactg       1620
351 aaatagatga tttgttcagt gcattcgga gcaactagtc acaaagagat gaccactatc       1680
353 accagcaaca agtaagaaaa acttaggatt aatggaaatt atccaatcca gagacggaag       1740
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357 aaacaatcaa atcatggatt cttgggaaga gggatcagga gataaatcat ctgacatctc       1860
359 atcggccctc gacatcattg aattcatact cagcaccgac tccaagaaa acacggcaga       1920
361 cagcaatgaa atcaacacag gaaccacaag acttagcacg acaatctacc aacctgaatc       1980
363 caaaacaaca gaaacaagca aggaaaatag tggaccagct acaaaaaatc gacagtttgg       2040
365 ggcacacac gaacgtgcc aagagacaaa agatagaaat gttaatcagg agactgtaca       2100
367 gggaggatat aggagaggaa gcagccaga tagtagaact gagactatgg tctactcgaag       2160
369 aatctccaga agcagcccag atcctaacaa tggaacccaa atccaggaag atattgatta       2220
371 caatgaagtt ggagagatgg ataaggactc tactaagagg gaaatgcgac aatttaaaga       2280

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